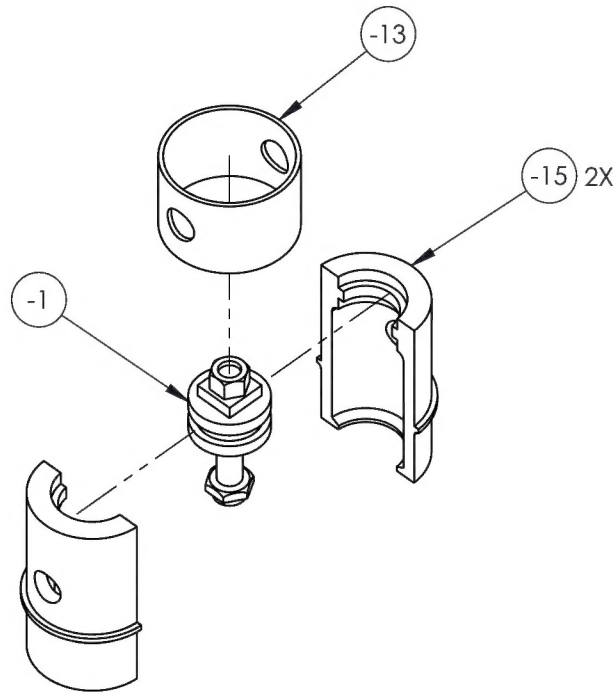


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	1/13/2016	DPD	JAG
2	16-0111	-9, -11, -13 ADDED HEAT TREAT RC 28-34. -15 CH'D DIMS WAS 1.34 IS 1.31, WAS (.031) IS (.06).	8/18/2016	DEW	SM

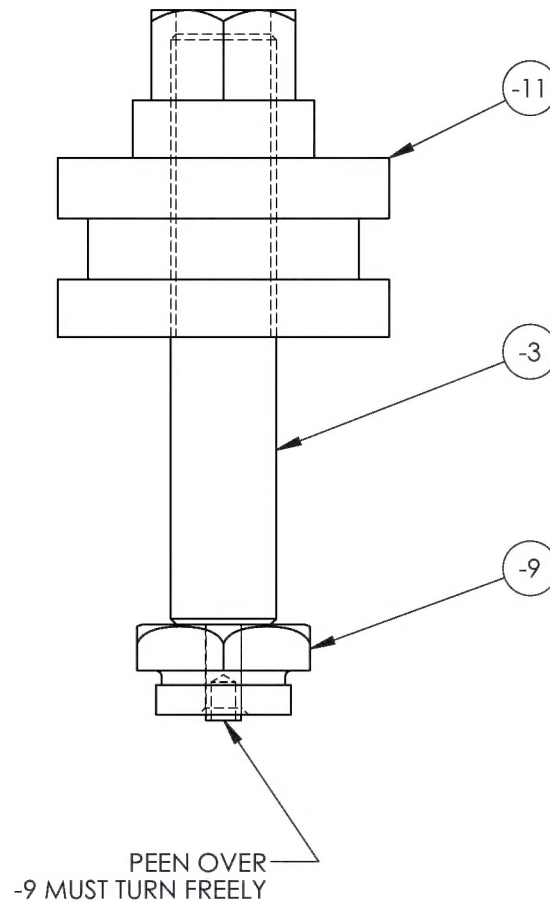


NOTE:
REF. EUROCOPTER T/N: 332A93-3225-01.

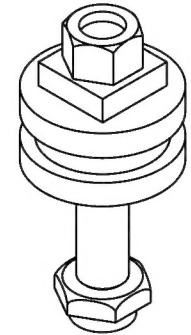
ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.	<div> </div>		
	X		-1	1	BOLT ASSY			2	TITLE		
	X		-3		THREADED ROD WELDMENT			3	DWG NO. RBE332A93-3225-01		
1			-5		THREADED ROD	STEEL	M14 X 1.5mm X 300mm (MCMASTER-CARR #98861A550) MODIFIED	4	REV 2		
1			-7		SPECIAL NUT			5	<div> <div>MAT'L</div> <div>HEAT TREAT</div> <div>FINISH</div> <div>SPEC</div> </div>		
	1		-9		NUT	4140/4142		6	<div> <div>DRAWN BY: DUERFELDT</div> <div>CHECKED: CLOUGH</div> <div>OPPS APPR: ANDERSON</div> <div>QA APPR: LINDSAY</div> <div>APPROVED: GILBERT</div> </div>		
			-11		PULLER	4140/4142		7	<div> <div>UNLESS OTHERWISE SPECIFIED</div> <div>DIMENSIONS ARE IN INCHES</div> <div>.XXX ± .005 FRACTIONS ± 1/8</div> <div>.XX ± .01 ANGLES ± 5°</div> <div>.X ± .1 SURFACES = 125°</div> </div>		
			-13	1	RING	4140/4142		8	<div> <div>1. BREAK ALL SHARP EDGES</div> <div>.015 x 45° OR .015R</div> <div>2. DIMENSIONAL LIMITS APPLY</div> <div>AFTER PLATING</div> <div>3. INTERPRET DIM AND TOL PER</div> <div>ASME Y14.5M-2009</div> </div>		
			-15	2	HALF SHELL	4140/4142		9	<div> <div>USED ON MODEL</div> <div>AS332</div> </div>		
ASSY -3	ASSY -1								<div> <div>SCALE 1:4</div> <div>DATE 1/12/2016</div> <div>SHEET 1 OF 9</div> </div>		

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



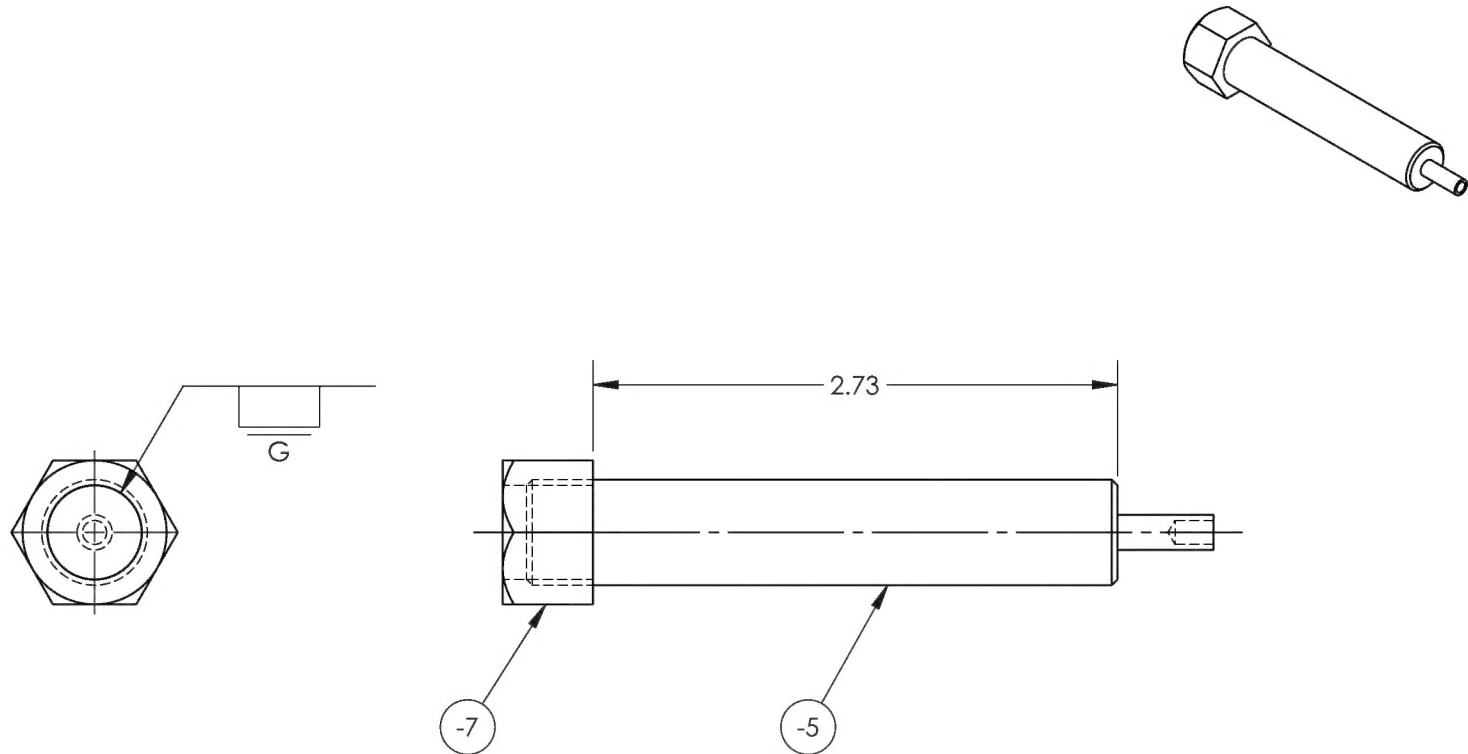
-1
BOLT ASSY



DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-1	REV 2
MAT'L TREAT FINISH SPEC	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125°
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AS332
SCALE 1:1	DATE 1/12/2016
SHEET 2 OF 9	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



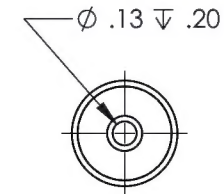
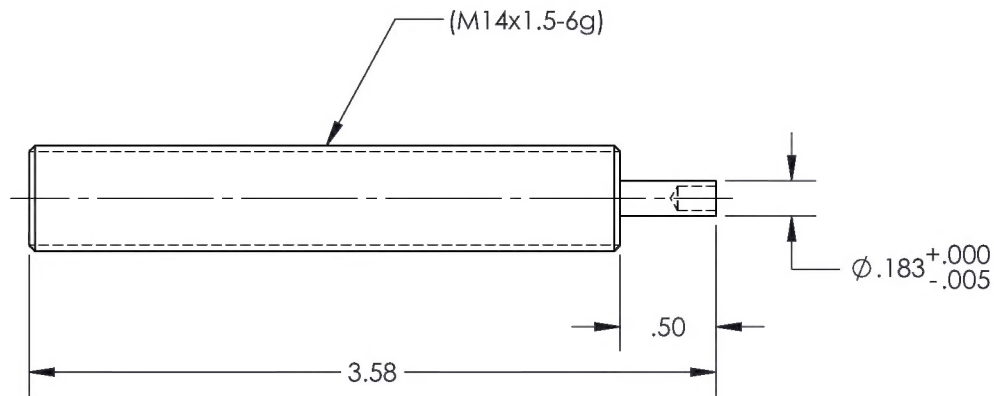
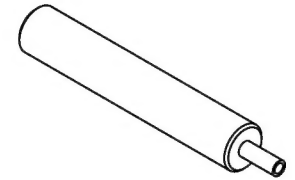
(-3)

THREADED ROD WELDMENT

DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-3	REV 2
MAT'L ASTM B633 TYPE I SC 2	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT ZINC PLATE	.XXX ± .010 FRACTIONS ± 1/8
FINISH ZINC PLATE	.XX ± .03 ANGLES ± 1°
	.X ± .1 SURFACES = 125
SPEC ASTM B633 TYPE I SC 2	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: CLOUGH	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	AS332
SCALE 1:1	DATE 1/12/2016
SHEET 3 OF 9	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



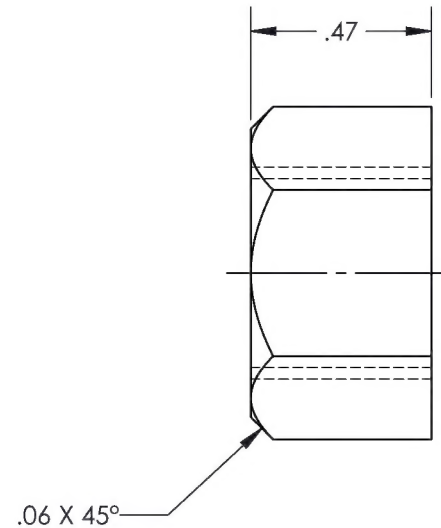
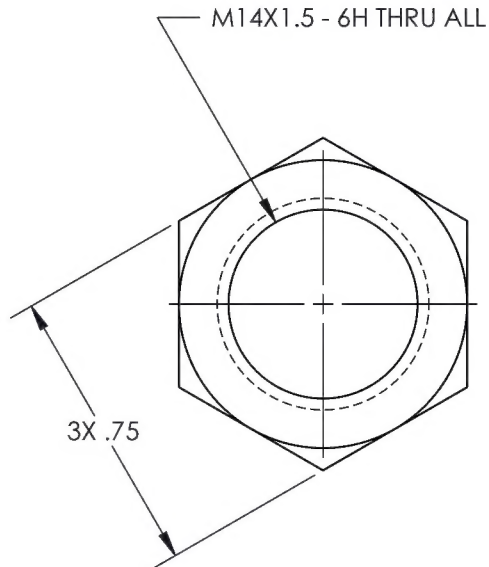
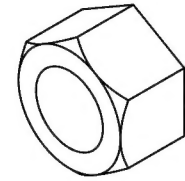
(-5)

THREADED ROD

DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-5	REV 2
MAT'L STEEL	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -3 WELDMENT	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES
CHECKED: CLOUGH	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	AS332
SCALE 1:1	DATE 1/12/2016
	SHEET 4 OF 9

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

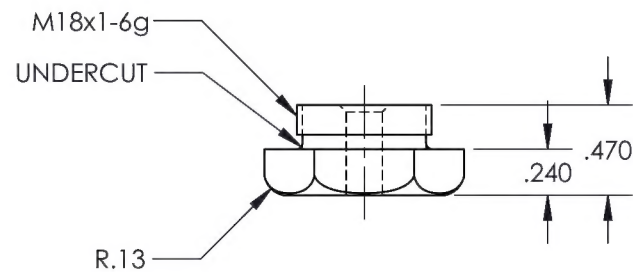
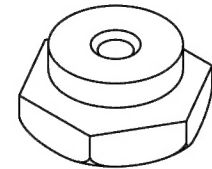
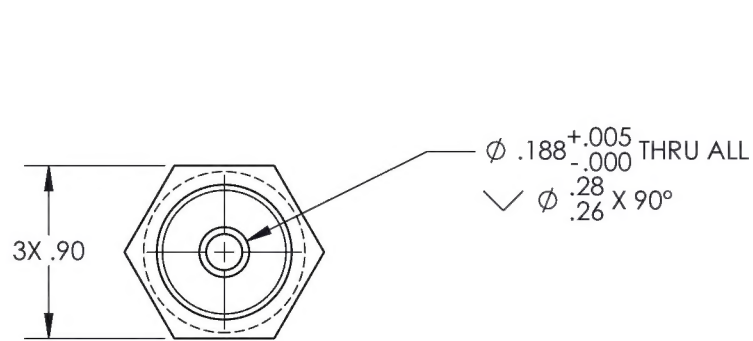


(-7)
SPECIAL NUT

DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-7	REV 2
MAT'L 4140/4142	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -3 WELDMENT	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
DRAWN BY: DUERFELDT	.X ± .1 SURFACES = 125
CHECKED: CLOUGH	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY
APPROVED: GILBERT	AFTER PLATING
SCALE 2:1	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DATE 1/12/2016	USED ON MODEL
	AS332
	SHEET 5 OF 9

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0111	-9 ADDED HEAT TREAT RC 28-34.	8/18/2016	DEW	SM



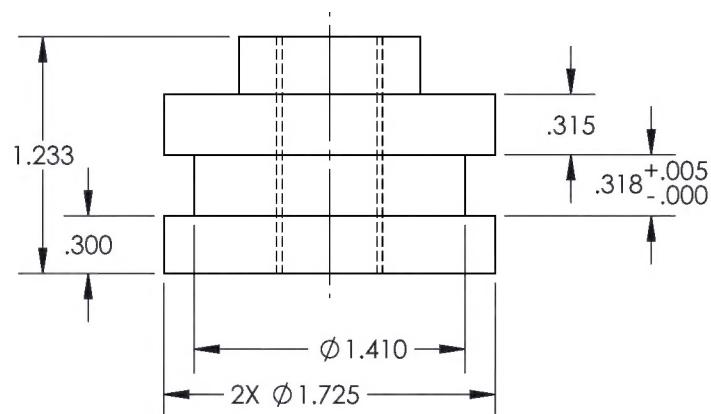
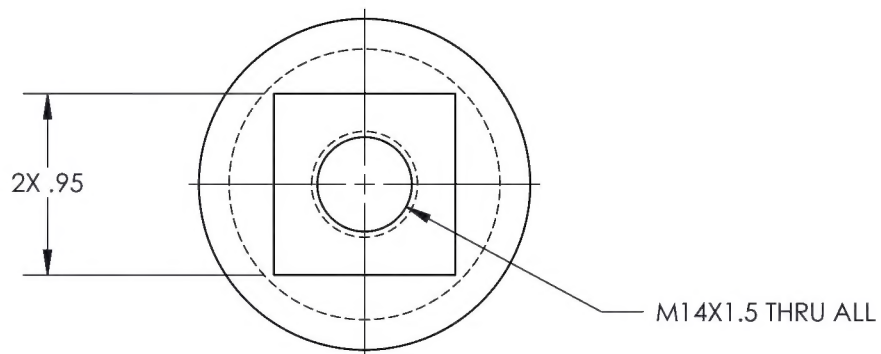
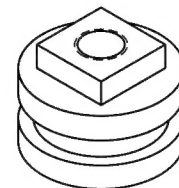
(-9)

NUT

DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-9	REV 2
MAT'L 4140/4142 HEAT TREAT RC 28-34 FINISH ZINC PLATE SPEC ASTM B633 TYPE I SC 2	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
DRAWN BY: DUERFELDT	USED ON MODEL
CHECKED: CLOUGH	AS332
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:1	DATE 1/12/2016
SHEET 6 OF 9	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0111	-11 ADDED HEAT TREAT RC 28-34.	8/18/2016	DEW	SM



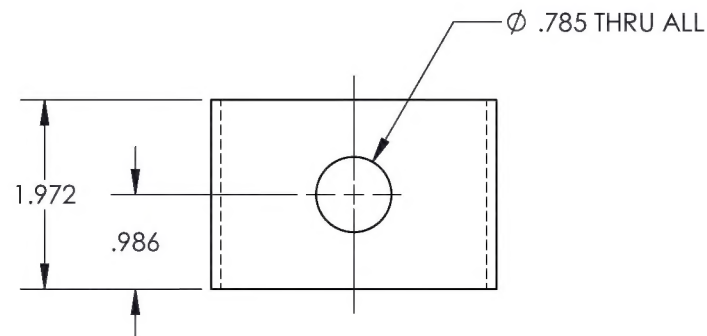
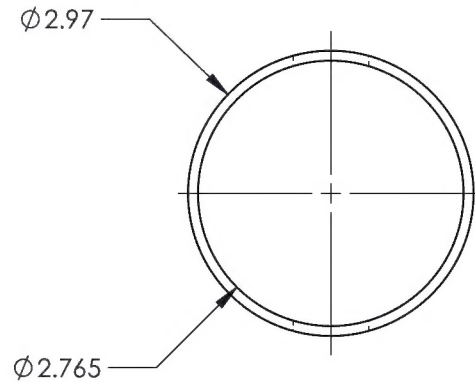
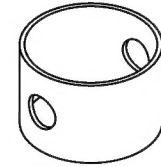
(-11)

PULLER

DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-11	REV 2
MAT'L 4140/4142 HEAT TREAT RC 28-34 FINISH ZINC PLATE SPEC ASTM B633 TYPE I SC 2	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: DUERFELDT CHECKED: CLOUGH OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
USED ON MODEL AS332	
SCALE 1:1	DATE 1/12/2016
SHEET 7 OF 9	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0111	-13 ADDED HEAT TREAT RC 28-34.	8/18/2016	DEW	SM

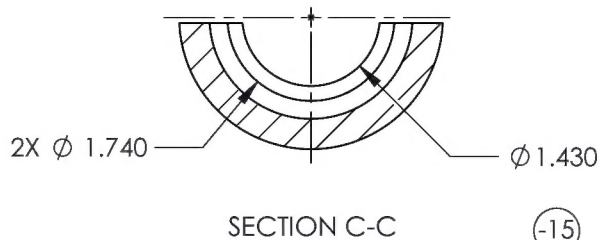
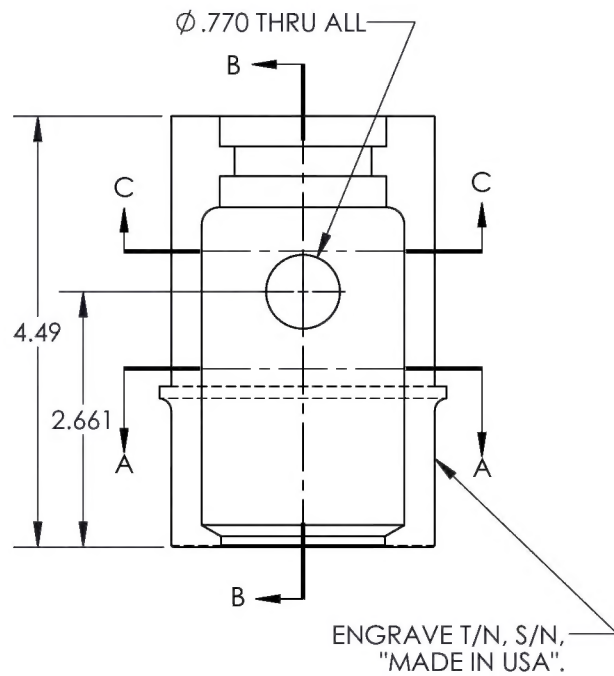
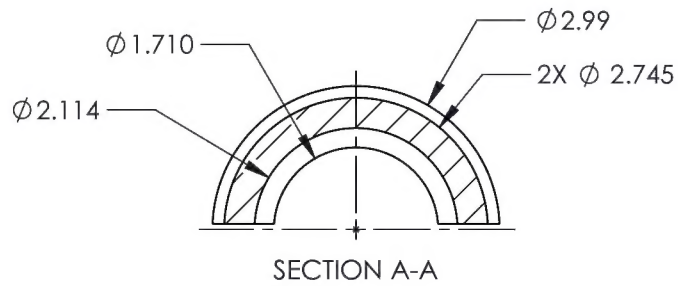


(-13)
RING

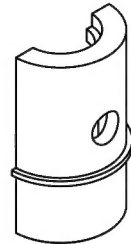
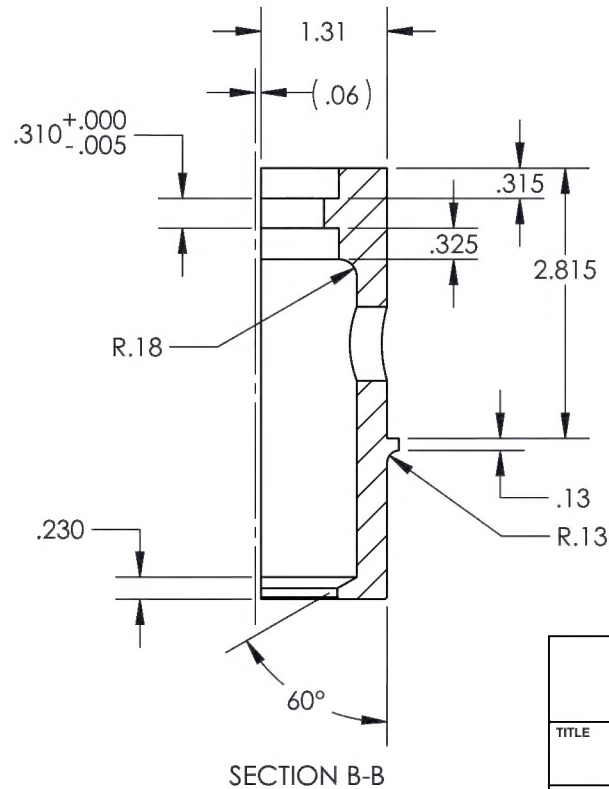
DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-13	REV 2
MAT'L 4140/4142 HEAT TREAT RC 28-34 FINISH ZINC PLATE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°
SPEC ASTM B633 TYPE I SC 2	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
DRAWN BY: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
CHECKED: CLOUGH	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
OPPS APPR: ANDERSON	USED ON MODEL
QA APPR: LINDSAY	AS332
APPROVED: GILBERT	
SCALE 1:2	DATE 1/12/2016
SHEET 8 OF 9	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
2	16-0111	-15 CH'D DIMS WAS 1.34 IS 1.31, WAS (.031) IS (.06).	8/18/2016	DEW
				SM



(-15)
HALF SHELL



DART AEROSPACE	
TITLE HAFTING LOCK WASHER	
DWG NO. RBE332A93-3225-01-15	REV 2
MAT'L 4140/4142 HEAT TREAT 40-45 RC FINISH ZINC PLATE SPEC ASTM B633 TYPE I SC 2	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: DUERFELDT	USED ON MODEL
CHECKED: CLOUGH	AS332
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:2	DATE 1/12/2016
SHEET 9 OF 9	